INTERNATIONAL SEARCH REPORT

International application No.

B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) H02K3/18, H02K1/14, H02K1/18, H02K1/27, H02K3/04 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2006 Kokai Jitsuyo Shinan Koho 1971-2006 Toroku Jitsuyo Shinan Koho 1994-2006			PCT/JP	2006/313729
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) HO2K3/18, HO2K1/14, HO2K1/18, HO2K1/27, HO2K3/04 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2006 Kokai Jitsuyo Shinan Koho 1971-2006 Toroku Jitsuyo Shinan Koho 1971-2006 Toroku Jitsuyo Shinan Koho 1974-2006 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y JP 10-146030 A (Hitachi, Ltd.), 29 May, 1998 (29.05.98), Par No. [0002]; Figs. 4, 7 (Family: none) Y JP 2001-314056 A (Matsushita Electric Industrial Co., Ltd.), 09 November, 2001 (09.11.01), Par Nos. [0017] to [0031]; Figs. 1 to 7 (Family: none) Y JP 4-501199 A (Pacific Scientific Co.), 2, 7 February, 1992 (27.02.92), Page 15, upper left column, line 9 to upper right column, line 3; Fig. 8 & WO 1990/01823 Al & US 4883999 A & EP 0395747 Al See patent family annex. See patent family annex. See patent famil	H02K3/18(2	2006.01)i, <i>H02K1/14</i> (2006.01)i,	H02K1/18(2006.01)i,	H02K1/27
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C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y JP 10-146030 A (Hitachi, Ltd.), 29 May, 1998 (29.05.98), Par. No. [0002]; Figs. 4, 7 (Family: none) Y JP 2001-314056 A (Matsushita Electric Industrial Co., Ltd.), 09 November, 2001 (09.11.01), Par. Nos. [0017] to [0031]; Figs. 1 to 7 (Family: none) Y JP 4-501199 A (Pacific Scientific Co.), 27 February, 1992 (27.02.92), Page 15, upper left column, line 9 to upper right column, line 3; Fig. 8 & W0 1990/01823 Al & US 4883999 A EV Further documents are listed in the continuation of Box C. See patent family annex. T laier document upblished after the international filing date or priority claim(s) or which is cited to establish the publication date of another citation or other date. T document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other date. T document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other such that the priority date claimed invention cannot be competited to establish the publication date of another citation or other such that the priority date claimed invention cannot be competited to establish the publication date of another citation or other such that claimed invention cannot be competited to establish the publication date of another citation or other such that claimed invention cannot be competited to establish the publication date of another citation or other such that the priority date claimed invention cannot be competited to establish the publication date of another citation or other such that the priority date claimed in such that the priority date cl	Jitsuyo Kokai Ji	Shinan Koho 1922-1996 Jit tsuyo Shinan Koho 1971-2006 Tor	suyo Shinan Toroku Koho oku Jitsuyo Shinan Koho	1996-2006 1994-2006
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Y JP 10-146030 A (Hitachi, Ltd.), 29 May, 1998 (29.05.98), Par. No. [0002]; Figs. 4, 7 (Family: none) Y JP 2001-314056 A (Matsushita Electric Industrial Co., Ltd.), 09 November, 2001 (09.11.01), Par. Nos. [0017] to [0031]; Figs. 1 to 7 (Family: none) Y JP 4-501199 A (Pacific Scientific Co.), 27 February, 1992 (27.02.92), Page 15, upper left column, line 9 to upper right column, line 3; Fig. 8 & W 0.1990/01823 A1 & US 4883999 A EP 0395747 A1 EX Further documents are listed in the continuation of Box C. See patent family annex. ** Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance be of particular relevance to the considered to respect account of patent but published on or after the international filing. "X" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) ** O document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) **O document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) **O document referring to an oral disclosure, use, exhibition or other means to document of particular relevance; the claimed invention cannot be considered to involve an inventive accombined on the content is taken alone to considered to involve an inventive accombination between the sum patent family Date of the actual completion of the international search report	C. DOCUMEN	ITS CONSIDERED TO BE RELEVANT		
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27 February, 1992 (27.02.92), Page 15, upper left column, line 9 to upper right column, line 3; Fig. 8 & W0 1990/01823 A1 & US 4883999 A & EP 0395747 A1 See patent family annex. * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international filing date "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search Date of the actual completion of the international search Date of mailing of the international search report	Y .	Industrial Co., Ltd.), 09 November, 2001 (09.11.01), Par. Nos. [0017] to [0031]; F		1-5
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "Date of the actual completion of the international search "Date of mailing of the international search report "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the priority in the priority date of the art which is not considered to involve an invention cannot be considered novel or cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family	Y	27 February, 1992 (27.02.92), Page 15, upper left column, l right column, line 3; Fig. 8 & WO 1990/01823 A1 & US	ine 9 to upper	2,4
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "C" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "Date of the actual completion of the international search "Date of mailing of the international search report	× Further de	ocuments are listed in the continuation of Box C.	See patent family annex.	
1	* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family	
Name and mailing address of the ISA/ Authorized officer	05 Oct	ober, 2006 (05.10.06)	17 October, 2006	
Japanese Patent Office Telephone No.	Name and mailing address of the ISA/ Japanese Patent Office			

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2006/313729

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Y	JP 2001-119885 A (Mitsubishi Electric Corp.), 27 April, 2001 (27.04.01), Full text; Fig. 6 (Family: none)	2,4
Y	JP 2002-354738 A (Mitsubishi Electric Corp.), 06 December, 2002 (06.12.02), Par. Nos. [0010] to [0016]; all drawings (Family: none)	5
Y	JP 6-225488 A (Matsushita Electric Industrial Co., Ltd.), 12 August, 1994 (12.08.94), Par. No. [0015]; Fig. 3 (Family: none)	5